

APPENDIX C. DITS Engine User Guide

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What is DITS

DITS is a computer-based training system. It has two goals:

It lets you review information you need in order to expertly troubleshoot the AGT 1500 engine in the M1/M1A1 tank.

It lets you practice performing troubleshooting tasks.

DITS is **ADAPTIVE**. It will determine:

- Your level of experience with troubleshooting the M1/M1A1 Turbine Engine.
- Your troubleshooting skills and related knowledge.
- The ways in which you prefer to learn information.

DITS will then select, or help you select, the information to review and the practice you need. As you use DITS, it will continually change to meet your needs.

Contents of DITS

DITS contains the following:

- An introduction which all new students must go through. The introduction explains what DITS is and how to use it.
- A short set of questions which new users must answer. These questions are used by DITS to determine your skill level and preferences for types of presentations.
- Four review modules which cover different aspects of the AGT 1500 Turbine Engine and troubleshooting. This material is available for you to examine before or after you try the hands-on troubleshooting practices.
- Some troubleshooting practices to let you practice your skills at identifying faults in the AGT 1500 Turbine Engine.

DITS also comes with some aids to help you use it. First, there is a built in coach called "Sergeant." Sergeant is available to introduce modules and to give you advice when you wish it during troubleshooting practices. When you need help during troubleshooting, place the cursor on the icon (picture) in the lower right-hand corner of the screen and press the **index finger mouse button** twice.

In addition to help from "Sergeant", there are some other aids available to you. You can access these aids by selecting **STUDENT AIDS** from the top menu bar that you see on the screen. These aids are:

- a glossary of terms,
- a notepad for you to use,
- DITS-Help which gives you information on how to use the different features in DITS,
- a bookmarking feature which allows you to mark a screen for later reference,
- a tutorial on how to use MS-windows and a mouse.

More information about these topics appears under "Using DITS Features."

When you are looking at review materials and practicing troubleshooting, sometimes there will be other aids to help you. These include:

- **SPECIAL GRAPHICS** illustrating what's being talked about in the text,
- **TEMPLATES** on graphics to help you better see what's being shown,
- **EXAMPLES** to help you better understand what's being described, and

You can access these aids from the appropriate button at the bottom of the screen. If DITS thinks a certain aid may be useful to you, Sergeant will prompt you to go look at that aid.

Using DITS

Logging On

Once you have begun DITS, the first thing you will see is a title screen. Either press the **ENTER** key or select the **BEGIN** button with the mouse by using the mouse to place the cursor (arrow) on the **BEGIN** button and pressing the **index finger mouse button**.

On the next screen, you will log onto the system. To log on:

1. Type the name that you want DITS to know you as.
 2. Press the **ENTER** key.
 3. Type your identification number (ID).
 4. Either press the **ENTER** key or select the **BEGIN** button by using the mouse to place the cursor (arrow) on the **BEGIN** button and pressing the mouse button under your index finger.
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Navigating through DITS

DITS is easy to use. In general, to move through the review modules and the troubleshooting practices, you will use the buttons at the bottom of the screen or in a window. Select the:

- **NEXT** button to go forward, and
- **BACK** button to go to the last viewed material.

To choose these buttons you can either:

- Use the mouse to move the cursor (arrow) onto the item and press the mouse button that is under your index finger once (this is called "clicking on" the item, **OR**
- Use the tab and shift keys on the keyboard to move the highlight to the item and press the **ENTER** key.

In the menu bar at the top of the screen, there is a choice for **NAVIGATION**, in addition to the choice of **STUDENT AIDS**. If you select **NAVIGATION**, you can:

- **QUIT DITS**, and return to MS-Windows,
 - **RETURN TO MAIN MENU**, or
 - **RETURN TO MODULE MENU**, when you are in a review module.
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Selecting Items in DITS

You will be choosing items from menus and activating icons and buttons to select the information you want to see or perform things you want to do. (An icon is a little picture which represents things you can perform actions on, such as start DITS or access a computer drive. A "button" is an area with a command or name of an item on it.) To select an item from a menu or select an icon or button you can:

- Use the mouse button to move the cursor onto the item and press the index finger mouse button once,
- If the first letter is underlined, press the **ALT** key and the letter at the same time,
- If you have selected Navigation, Student Aids, or Profile, then press the first letter of the desired

choice under these categories (e.g., press "N" for **NOTEPAD**). **OR**

- Use the tab and shift keys or arrow keys on the keyboard to move the highlight to the item and press the **ENTER** key.
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Using the Mouse

Most of the activities you will perform, you will probably want to use the mouse. If you do not know how to use the mouse, we recommend that you look at the Windows tutorial that is available from the **STUDENT AIDS** choices on the top menu bar. It includes a tutorial on how to use a mouse.

Using DITS Features

NOTEPAD

NOTEPAD is a way for you to make notes as you go through training. These notes are saved by MS-Windows and you can access them at any time.

Access **NOTEPAD** from the **STUDENT AIDS** choice in the top menu bar. When you access **NOTEPAD**, DITS will open up a window for you to type in your notes. This window will have a scroll bar next to it. All notes which you have previously entered will appear in that window, and you can scroll through them.

To enter and save notes after accessing **NOTEPAD**:

1. Enter your notes.
2. When you are finished, select the **EXIT** button to leave **NOTEPAD** as described below.
NOTEPAD automatically saves your notes.

To access your notes:

1. Select **NOTEPAD**.
2. Read your notes or add to them.

Scroll through the material by placing the cursor on the scroll bar arrow and press the index finger mouse button down, or press the TAB key to position the highlight and press the **ENTER** key until you see the material for which you were looking.

To erase your notes:

1. Select **NOTEPAD**.
2. Using the mouse, move the cursor to the beginning of the text you wish to remove and press the index finger mouse button. Then press the **DELETE** key until all the text is gone, **OR**

3. Move the cursor to the beginning of the text by pressing the **TAB** key and press the **DELETE** key until until all the text is gone, **OR**
 4. Using the mouse, move the cursor to the end of the text you wish to remove and press the index finger mouse button. Then press the **BACKSPACE** key until all the text is gone.
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Using the **BOOKMARK**

You can use the **BOOKMARK** to mark a place in the review information to which you think you might return to at some later time.

Access **BOOKMARK** from the top menu bar choice **STUDENT AIDS**. You will be able to choose to go a bookmark or to set the current screen you are on with a bookmark.

To mark a display with bookmark:

1. Access **BOOKMARK**.
2. Select **SET BOOKMARK**. Either click on it with the mouse or tab to the button and press the **ENTER** key.
3. Type in a short description for your **BOOKMARK**.
4. Select **EXIT** to tell DITS you are finished making the bookmark. Either click on it with the mouse or tab to the button and press the **ENTER** key.

To access a bookmark display:

1. Access **BOOKMARK**.
2. Select the **BOOKMARK** from the scrollable list by placing the cursor on it to highlight it. (Use either the mouse or the tab to move the highlight.)
3. Select the **GO TO BOOKMARK** button. Either click on it with the mouse or tab to the button and press the **ENTER** key.
4. Select **RETURN TO BOOKMARK LIST** from the top menu bar. DITS will take you back to the bookmark list. Select the **EXIT** button to return to where you were in the training.

To remove a **BOOKMARK**:

1. Access **BOOKMARK**.
2. Select the **BOOKMARK** to be removed from the list by highlighting it and either pressing the index finger mouse button or by pressing the **ENTER** key.
3. Select the **REMOVE BOOKMARK** button. Either click on it with the mouse or tab to the button and press the **ENTER** key.

To leave **BOOKMARK**, select the **EXIT** button. Either click on it with the mouse or tab to the button and press the **ENTER** key.

Using the **GLOSSARY**

The **GLOSSARY** contains a list of acronyms related to M1/M1A1 TIS. These acronyms are arranged alphabetically.

Access the **GLOSSARY** from the menu bar choice **STUDENT AIDS**. There are three different ways you can look through the **GLOSSARY**.

YOU CAN:

1. Scroll through the **GLOSSARY** to locate the term for which you are looking. (To scroll with the mouse, position on either the up or down arrow key and press the index finger mouse button. To scroll with the keyboard, use the tab key to position the highlight on either the up or down arrow key and press the **ENTER** key.)
2. Type in the term in the gray box at the top (where the blinking line is) and press **ENTER** and DITS will present it to you. (Use the tab key or mouse to select the box if the box is not gray.)
3. **Type in the first few letters** of the term and an asterisk (*) and DITS will present all the terms beginning with those letters. If you are using the **TAB** key, press it until you see a line in the entry box and press the index finger mouse button (e.g. "click" on the box).

When you have finished looking at the definition of the term, select the **DONE** button that's on the screen with the term. You will go back to where you were in the training.

Additionally, when text in a **GLOSSARY** item refers to another **GLOSSARY** entry with more information, the mouse cursor will change to a double-box shape. You can click the mouse button or press the **ENTER** key to go to that entry.

Using the DITS-HELP

DITS-HELP contains a list of topics for which more information is available. The topics are arranged alphabetically.

Access **DITS-HELP** from the top menu bar choice **STUDENT AIDS**. To find a topic available in **DITS-HELP**, scroll through the list of topics presented by DITS by placing the cursor on the list and holding down the index finger mouse button, until you locate the topic for which you are looking or use the **TAB** or arrow keys to move the highlight. When you come to the topic, place the cursor on it and click the index finger mouse button or press the **ENTER** key.

When you have finished looking at a selected topic, select the **EXIT** button which is at the bottom of the display window. You will return to where you were in the training.

Using the WINDOWS TUTORIAL

The **WINDOWS TUTORIAL** presents information on how to use MS-Windows and a mouse.

Access the **WINDOWS TUTORIAL** from the top menu bar choice **STUDENT AIDS**. Then just follow the directions.

Using Special Graphics

Sometimes as you use DITS, special graphics illustrating what's being talked about in the text will be available for you to look at. You will know if there are graphics available because there will be a **GRAPHIC** button at the bottom of the display.

Access the special graphic by selecting the button on the bottom of the screen. Exit the graphic by selecting the **DONE** button at the bottom of the display.

Using Templates

When using DITS, you may wish to see a **TEMPLATE** type graphic to help you better understand the material. You will know there is a template available because there will be a **TEMPLATE** button on the screen.

Access a **TEMPLATE** by selecting a **TEMPLATE** button on the screen. Exit a **TEMPLATE** by selecting the **DONE** button on the bottom of the **TEMPLATE** display.

Using EXAMPLES

When using DITS, you may wish to have some examples to help you better understand what's being described. Whenever DITS is presenting material which might need some examples, you may be able to access some. If there are examples available, there will be an **EXAMPLE** button on the screen.

Access the example by selecting the **EXAMPLE** button on the screen. Exit the example by selecting the **DONE** button at the bottom of the screen.

DITS Requirements and Setup

Minimum Requirements to Run the AGT 1500 Turbine Engine DITS

To run the Turbine Engine DITS, you need a 80386DX or a 80846 personal computer with 4 megabytes of memory, a 40 megabyte hard drive, a mouse, a keyboard, a monitor set to VGA and MS Windows Version 3.1.

Loading DITS

To load DITS, you should be in the MS Windows File Manager. (If you don't know how to get there, please refer to the MS-Windows documentation or ask someone who knows how to use MS-Windows). You may also load DITS from the MS-Windows Program Manager.

1. Put DITS disk in either drive A: or B:, whichever is your 3-1/2" drive.
2. Select the drive containing the disk File Manager by placing the cursor on the drive designator and icon and pressing the index finger mouse button twice.
3. File Manager will display a list of files on the disk in the selected drive. On this list, locate "SETUP.EXE".
4. Place the cursor on the "SETUP.EXE" and press the index finger mouse button twice.
5. Follow the directions that appear on the screen.

When the setup is complete, a menu window will appear which contains a little picture of a tank. This is the DITS icon.

Starting up the AGT 1500 Turbine Engine DITS

To start DITS:

1. Make sure that MS-Windows is set up for VGA display. To check:
 1. Open the MS-Windows Main Menu.
 2. Position the cursor on MS-Windows Setup and press the index finger mouse button twice.
 3. Check display setting. If it says "VGA", then close the MS-Windows Setup (Check documentation, if you are unsure how to do this), and go to step 2.
 4. If the MS-Windows Setup display does not say "VGA":
 1. Select "Options" from the Setup Window Menu.
 2. Select "VGA" from the display options.
 3. If MS-Windows directs you to insert disks, follow the directions that appear on the screen.
 4. If you do not see the DITS icon (a little tank), open the DITS menu window by positioning the cursor on the DITS menu window icon and press the index finger mouse button twice.
 5. Go to step 2.
2. Move the mouse so that the cursor is on the DITS icon (the little tank).
3. Press the index finger mouse button twice.